



## SEQUENCE LISTING

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Board of Regents of the University of Nebraska

<120> Materials and Methods for Molecular  
Detection of Clinically Relevant Pathogenic Fungal Species

<130> UNMC 63149

<140> 09/580,797

<141> 2000-05-30

<160> 39

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B1

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aacctgcgga	gggatcatta	cagagttact	actccaaacc	cattgtggga	agtaaaagtc	180
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 <221> misc\_feature  
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 caaccctcag ggccccgggc ctggcggttg ggatcgggcg aagccccctg cgggcacaac 420  
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 gacctcgaat caagtaggaa tac 563

<210> 11  
 <211> 620  
 <212> DNA  
 <213> Fusarium oxysporum

<400> 11  
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 <213> Fusarium monilliformes

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 aacttctgaa tgttgacctc ggatcaggta ggaatac 637

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 <213> Malassezia furfur

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 <213> *Cylindrocarpon lichenicola*

B1

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 <213> *Gymnasella hyalinaspora*

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cctgagtgta	tggggctctg	tcacacgctc	accagccagg	accggcgcca	gcctaccagt	660
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 <213> Blastomyces dermatitides

<220>  
 <221> misc\_feature  
 <222> (0)...(0)  
 <223> n = a or c or g or t

B1

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gccgtggggg	gttgggagtc	tctgaccggg	acccctccgc	cccccttacc	cggccatcct	180
tgtctaccgg	acctgttgcc	tcggcgggcc	tgcagcgatg	ctgccggggg	agcttcttct	240

ccccgggctc	gtgtccgcgc	gggacaccgc	aagaaccgtc	ggtgaacgat	tggcgtctga	300
gcataagagc	gataataatc	cagttaaaac	tttcaacaac	ggatctcttg	gttccgacat	360
cgatgaagaa	cgcagcgaaa	tgcgataagt	aatgtgaatt	gcagaattcc	gtgaatcatc	420
gaatctttga	acgcacattg	cgcaccttgg	tattccgggg	ggcatgcctg	tccgagcgtc	480
attgcaaccc	tcaagcgcg	cttgtgtttt	gggccgtcgt	ccccctcga	ccggcgggac	540
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caccgcgtct	ggaagccc					618

<210> 20  
 <211> 577  
 <212> DNA  
 <213> *Cryptococcus neoformans*

<400> 20

ggaagtaaaa	gtcgtaacaa	ggtttctgta	ggtgaacctg	cagaaggatc	attagtgaaa	60
gcaagggcca	gccatacgga	cggcgctact	cgcgtacaac	gtctctggcg	gagaatattg	120
gactttggtc	catttatcta	cccatctaca	cctgtgaact	gtttatgtgc	ttcggcacgt	180
tttacacaaa	cttctaaatg	taatgaatgt	aatcatatta	taacaataat	aaaactttca	240
acaacggatc	tcttggcttc	cacatcgatg	aagaacgcag	cgaaatgcga	taagtaatgt	300
gaattgcaga	attcagtga	tcatcgagtc	tttgaacgca	acttgcgccc	tttgggtattc	360
cgaagggcag	gcctgtttga	gagtcatgaa	aatctcaatc	cctcgggttt	tattacctgt	420
tggacttggg	tttgggtgtt	tgccgcgacc	tgcaaaggac	gtcggctcgc	cttaaattgtg	480
ttagtgggaa	ggtgattacc	tgtcagcccc	gcgtaataag	tttcgctggg	cctatgggggt	540
agtcttcggc	ttgctgataa	caaccatctc	tttttgt			577

<210> 21  
 <211> 498  
 <212> DNA  
 <213> *Issatchenkia orientalis*

<400> 21

ggaagtaaaa	gtcgtaacaa	ggtttccgta	ggtgaacctg	cggaaggatc	attactgtga	60
tttagtacta	cactgcgtga	gcggaacgaa	aacaacaaca	cctaaaatgt	ggaatatagc	120
atatagtcga	caagagaaat	ctacgaaaaa	caaacaaaac	tttcaacaac	ggatctcttg	180
gttctcgcag	cgatgaagag	cgcagcgaaa	tgcgatacct	agtgtgaatt	gcagccatcg	240
tgaatcatcg	agttcttgaa	cgcacattgc	gccccctcgg	attccggggg	gcagccctgt	300
ttgagcgtcg	tttccatctt	gcgcgtgcgc	agagttgggg	gagcggagcg	gacgacgtgt	360
aaagagtcga	ggagctgcga	ctcgccctgaa	agggagcgaa	gctggccgag	cgaactagac	420
tttttttcag	ggacgcttgg	cggccgagag	cgagtgttgc	gagacaacaa	aaagctcgac	480
ctcagatcag	gtaggaat					498

<210> 22  
 <211> 646  
 <212> DNA  
 <213> *Candida albicans*

<400> 22

ggaagtaaaa	gtcgtaacaa	ggtttctgta	ggtgaacctg	cagaaggatc	attagtgaaa	60
gcaagggcca	gccatacgga	cggcgctact	cgcgtacaac	gtctctggcg	tccgtaggtg	120
aacctgcgga	aggatcatta	ctgattttgct	taattgcacc	acatgtgttt	ttctttgaaa	180
caaacttgct	ttggcggtgg	gcccagcctg	ccgccagagg	tctaaactta	caaccaattt	240
tttatcaact	tgtcacacca	gattattact	aatagtcaaa	actttcaaca	acggatctct	300
tggttctcgc	atcgatgaag	aacgcagcga	aatgcgatac	gtaatatgaa	ttgcagatat	360
tcgatgaatca	tcgaaatctt	gaacgcacat	tgcgccctct	ggtattccgg	agggcatgcc	420
tggtttgagc	tcgtttctcc	ctcaaaccgc	tgggtttggg	gttgagcaat	acgacttggg	480
tttgcttgaa	agacggtagt	ggtaaggcgg	gatcgctttg	acaatggctt	aggtctaacc	540
aaaaacattg	cttgcggcgg	taacgtccac	cacgtatatc	ttcaaacttt	gacctcaaat	600
caggtaggac	taccgcgtga	acttaagcat	atcaataagc	ggagga		646

<210> 23  
 <211> 323  
 <212> DNA  
 <213> Candida Lusitaniae

<400> 23  
 aaaaatacat tacacattgt ttttgcgaaac aaaaaaataa atttttttat tccaattttct 60  
 taatatcaaa acttttaaca acggatctct tggttctcgc atcgatgaag aacgcagcga 120  
 attgcgatac gtagtatgac ttgcagacgt gaatcatcga atctttgaac gcacattgag 180  
 cctcgaggca ttctcgagg catgcctgtt tgagcgtcgc atccccctta acccccgggt 240  
 aggcgttgct ccgaaatata aaccgcgctg tcaaacacgt ttacagcacg acatttcgcc 300  
 ctcaaatcag gtaggactac ccg 323

<210> 24  
 <211> 559  
 <212> DNA  
 <213> Candida glabrata

B1  
 <400> 24  
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 cactcaggag gctcctaaaa tattttctct tctgtgaatg ctatttctcc tgctgcgct 120  
 taagtgcgag gttggtgggt gttctgcagt ggggggagg agccgacaaa gacctgggag 180  
 tgtgcgtgga tctctctatt ccaaaggagg tgttttatca cactgactga cactttctaa 240  
 ttactacaca cagtggaggt tactttacta ctattctttt gtctggtggg ggaacgctct 300  
 ctttcggggg ggagttctcc caatggatgc caacacaaac aaatattttt ttaaacttat 360  
 tcaatcaaca caagatttct ttaataagaa aacaacttca aaactttcaa caatggatct 420  
 cttggttctc gcacgcagta agaacgcagc gaaatgccga tacgtaattg gaattgcaga 480  
 attcgtgaa tcatcgaaatc tttgaacgca cattgcgccc tctggtattc cgggggggcat 540  
 gcctgtttga gcgtcattt 559

<210> 25  
 <211> 520  
 <212> DNA  
 <213> Penicillium spp.

<220>  
 <221> misc\_feature  
 <222> (0)...(0)  
 <223> n = a or c or g or t

<400> 25  
 ggaagtaaaa gtcgtaacaa ggtttctgta ttgttgcttc ggccggcccg ccttaactgg 60  
 ccgccggggg gcttacgccc ccgggcccgc gcccgccgaa gacacccctg aactctgtct 120  
 gaagattgta gtctgagtga aaatataaat tatttaaaac tttcaacaac ggatctcttg 180  
 gttccggcat cgatgaagaa cgcagcgaaa tgcgatacgt aatgtgaatt gcaaattcag 240  
 tgaatcctcg agtctttgaa cgcacattgc gccccctggt attccggggg gcatgcctgt 300  
 ccgagcgtca ttgctgccct caagcacggc ttgtgtgttg ggcccccgtc ctcccgatcc 360  
 cgggggacgg cccccgaaaa ggcagcggcg gcaccgcctt cccggctctc cgagccttat 420  
 ggggctttgt tcaccccgct cttgttaggc cccggcccgcc ctgccccga tcaacccaaa 480  
 tttttatcca agtttgacct ccggatcang ttagggatac 520

<210> 26  
 <211> 654  
 <212> DNA  
 <213> Malbranchia spp.

<400> 26  
 ggaagtaaaa gtcgtaacaa ggtttctgta ggtgaacctg cagaaggatc attagtgaag 60  
 gcaagggcca gccatacggg cggcgctact cgcgtacaac gtctctggcg tccgtagggt 120  
 aacctgcgga aggatcatta aagtgttaag ccggcgccct cgtgtgccgg tgaaactcca 180



cccttgacta	ctataccaca	tgttgctttg	gcggggcccg	ctccggggccg	ccggggggccc	240
tgcccctggc	ccgcgcccgc	cagagataca	ctgaaccctt	tgtgaaattg	gacgtctgag	300
ttgatgatca	atcattaaaa	ctttcaacaa	tggatctctt	ggttccggca	tcgatgaaga	360
acgcagcgaa	atgcgataag	taatgtgaat	tgcagaattc	cgtgaatcat	cgaatctttg	420
aacgcacatt	gcgccccctg	gtattccggg	gggcatgcct	gtccgagcgt	cattgcaacc	480
ctcaagcgcg	gcttggtgtg	tgggcctcgt	cccccggtga	cgtgcccga	aggcagtggc	540
ggcgctcggt	tcgggtgccc	agcgtatggg	aactcttata	ccgctcgaag	ggcccggcgg	600
cgctggtcag	aaccaaattc	tttaccgggt	gacctcggat	caggtaggga	tacc	654

<210> 27  
 <211> 719  
 <212> DNA  
 <213> *Arthrogrothilus* spp.

<220>  
 <221> misc\_feature  
 <222> (0)...(0)  
 <223> n = a or c or g or t

B1

<400> 27						
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gcaagggcca	gccatacgga	cggcgctact	cgcgtacaac	gtctctggcg	tatggtgtct	120
tggttgtagc	tggtcctcgc	gagcattgtg	cacgcccgc	atctttatct	atccacctgt	180
gcaccgactg	taggtctgga	tgactctcgt	gctctctgag	tgccggtgcg	aggattgccc	240
tcttgagggtg	tctctcctcg	aatttccagg	ctctacgtct	ttttacacac	cccacaagta	300
tgatatagaa	tgtagtcaat	gggcttgatc	gcctataaaa	cactatacaa	ctttcagcaa	360
cggatctctt	ggctctcgca	tcgatgaaga	acgcagcgaa	atgcgataag	taatgtgaat	420
tgcagaattc	agtgaatcat	cgaatctttg	aacgcacctt	gcgctccttg	gtattccgag	480
gagcatgcct	gtttgagttg	tcattaaatt	ctcaacctca	ccccgttttc	ccgaacgggt	540
ctccgaggct	tggtatgtgg	tttttgtgcc	aggcttgcc	ccagccgcgg	tcttgtcccc	600
ttgaaattgc	atttagcgag	ttcgtacttg	agctccgtct	atggtngtga	taaattatct	660
acgcccgttg	gacngtttta	aaactccctt	ctaaccgtcc	cgcaangana	atanctttt	719

<210> 28  
 <211> 672  
 <212> DNA  
 <213> *Cylindrocarpon destructans*

<400> 28						
ggaagtaaaa	gtcgtaacaa	ggttttctgta	ggtgaacctg	cagaaggatc	attagtga	60
gcaagggcca	gccatacgga	cggcgctact	cgcgtacaac	gtctctggcg	tccgtagggtg	120
aacctgcgga	aggatcatta	cagtgcgcgc	gggacgcgc	ccctaaaccg	gggcgcccag	180
tttacaactc	ccaaacccct	gtgaacatac	catttggttg	ctcggcggtg	cctgcttcgg	240
cagcccgcga	gaggacccaa	acccttgatt	ttatacagta	tcttctgagt	aatgatttaa	300
ataaatcaaa	actttcaaca	acggatctct	tggttctggc	atcgatgaag	aacgcagcga	360
aatgcgataa	gtaatgtgaa	ttgcagaatt	cagtgaatca	tcgaatcttt	gaacgcacat	420
tgcccccgc	agtattctgg	cgggcatgcc	tgttcgagcg	tcatttcaac	cctcaagccc	480
ccgggcttgg	tggttgagat	cggcgtgccc	cccggggcgc	gccggctccc	aaatatagtg	540
gcggtctcgc	tgtagcttcc	tctgcgtagt	agcacacctc	gcactggaaa	acagcgtggc	600
cagcccggtta	aacccccac	ttctgaaagg	ttctattctt	cttaggttga	cctcggatca	660
ggtagggata	cc					672

<210> 29  
 <211> 727  
 <212> DNA  
 <213> *Sporothrix schenckii*

<220>  
 <221> misc\_feature  
 <222> (0)...(0)  
 <223> n = a or c or g or t

<400> 29

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 gcaagggcca gccatacgga cggcgctact cgcgtacaac gtctctggcg gtcgtaacaa 120  
 ggtctccgtt ggtgaaccag cggagggatc attacagagt ttccacaact cccaaccctt 180  
 gcgaaccgta cccaatctcg ttctcggtgc ttctggcggg gggaancggg ggggcgccc 240  
 acacggcccc ctcttgcccc cgcccgccag gggcgggcgg ccctacgaac ctttgtatct 300  
 caaccactag aaaaccgtct gaggaaaaaa caaaataatc aaaactttca acaacggatc 360  
 tcttggtctt ggcacgatg aagaacgcag cgaaatgcga tacgtaatgt gaattgcaga 420  
 attcagcgaa ccatcgaaatc tttgaacgca cattgcgccc gccagcattc tggcgggcat 480  
 gctgtccga gcgtcatttc cccctcacg cgcccggtg cgcgctggtg ttggggcgcc 540  
 ctccgctgg cgggggggcc ccgaaancga gtggcgggcc ctgtggaagg ctccgagcgc 600  
 agtaccgaac gcatgttctc cctcgcctcc ggacgcccc caggcgccct gccgtgaaaa 660  
 cgcgcgatgac gcgcagctct ttttacaagg ttgacctcgc cgctgacctc ggatcagtag 720  
 ggaatac 727

<210> 30  
 <211> 700  
 <212> DNA  
 <213> *Penicillium marneffeii*

<400> 30

ggaagtaaaa gtcgtaacaa ggtttctgta ggtgaacctg cagaaggatc attagtgaag 60  
 gcaagggcca gccatacgga cggcgctact cgcgtacaac gtctctggcg tccgtaggtg 120  
 aacctgcgga aggatcatta ccgagtggg gccctctggg tccaacctcc caccctgtc 180  
 tatcgtaact tgttgcttcg gcggggccgc cgtttcgacg gccaccgggg aggccttgcg 240  
 ccccgggg ccgcggccgc gaagacccca acatgaacgc tgtttctgaaa gtatgcagtc 300  
 tgagttgatt atcgtaataca gttaaaactt tcaacaacgg atctcttggt tccggcatcg 360  
 atgaagaacg cagcgaaatg cgataagtaa tgtgaattgc agaattcagt gaatcatcga 420  
 gtctttgaac gcacattgcg cccctggta ttccggggg catgcctgtc cgagcgatc 480  
 tgctgcctc aagcacggct tgtgtgtggg ccccgctccc cctctcccgg gggacggggc 540  
 cgaaaggcag cggcggcacc gcgtccggtc ctcgagcgta tggggctttg tcacctgctc 600  
 tgtaggcccg gccggcgcca gccgacacc aactttattt ttctaagggt gaccttggt 660  
 caggtaggga taccgcgtgc ctccggtcag gtaggaatac 700

<210> 31  
 <211> 714  
 <212> DNA  
 <213> *Coccidioides immitis*

<400> 31

ggaagtaaaa gtcgtaacaa ggtttctgta ggtgaacctg cagaaggatc attagtgaag 60  
 gcaagggcca gccatacgga cggcgctact cgcgtacaac gtctctggcg tccgtaggtg 120  
 cgtccggtg cgcacctccc ccgcgggggt tcgcgcgggt cgtacctccc acccggtgtt 180  
 actgaaccat tgttgcttg gcaggcctgc cgggcctccg gctgccgggg atcgcccgcc 240  
 ttgcgcggcg tcccgggcgc gcgcctgcca gcgatcaat tgaactctta tgtgaagatt 300  
 gtcagctctga gcatcatagc aaaaatcaaa caaaactttc aacaacggat ctcttggttc 360  
 cggcatcgat gaagaacgca gcgaaatgcg ataagtaatg tgaattgcag aattccgtga 420  
 atcatcgaat ctttgaacgc acattgcgcc ctctggtatt ccggggggca tgctgttcg 480  
 agcgtcattg caaaccttc aagcacggct tgtgtgttg gccaacgtcc ccgcttggtg 540  
 ggacgggcct gaaatgcagt gcgggcaccg agttcctggg gtctgagtg atgggaaatc 600  
 acttcacgc tcaaagacc gatcggggccc gatctctttt ttttattata tccgggttga 660

cctcgatca ggtaggagta cccgctgaac ttacctcgga tcaggttaga atac

714

<210> 32  
<211> 497  
<212> DNA  
<213> *Candida tropicalis*  
  
<220>  
<221> misc\_feature  
<222> (0)...(0)  
<223> n = a or c or g or t

B1

<400> 32  
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cnaccnccan aggttanaac taaaccnaac tttttnttta cagtcnaact tnatttatta 180  
ttacnanagt caaaactttc aacaacggat ntnttggnn tngcatcnat gaanaacnca 240  
nnaaatncn atacgtaata tnaattgcan anattngtna atcatcgaat ctttnaacgc 300  
ccnntgcnc ctttggtatt ccaaanggca ngcctggttn ancgtcattt ntcccncaaa 360  
ccccgggnt tgggtgttnaa cnanaccnaa ggtttggttg aaaaaattta acgtggaaac 420  
ttatttttaa cgacttaggt ttatccnaaa acgcttattt tgctagggcc accacaattt 480  
atttcaaact tgacca 497

<210> 33  
<211> 496  
<212> DNA  
<213> *Candida parapsilosis*  
  
<220>  
<221> misc\_feature  
<222> (0)...(0)  
<223> n = a or c or g or t

<400> 33  
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gctttggtag gccttctata tggggcctgc cagagattaa actcaaccaa attttattta 180  
atgtcanccg attatttaat agtcaaaact ttcaacaacg gatctcttgg ttctcgcatc 240  
gatgaagaac gcagcgaaat gcgataagta atatgaattg cagatattcg tgaatcatcg 300  
aatctttgaa cgcncattgc gccctttggt attccaaagg gcatgcctgt ttgagcgtca 360  
tttctccnc aaaccctcgg gtttggtgtt gagcgatacg ctgggtttgc ttgaaagaaa 420  
ggcggagtat aaactaatgg ataggttttt tccactcatt ggtacaaact ccaaaacttc 480  
ttccaaattc gacca 496

<210> 34  
<211> 595  
<212> DNA  
<213> *Aspergillus flavus*

<400> 34  
tccgtaggtg aacctgcgga aggatcatta ccgagtgtag ggttcctagc gagcccaacc 60  
tcccacccgt gtttactgta ccttagttgc ttggcgggc ccgccattca tggccgccgg 120  
gggctctcag ccccgggccc gcgcccgcg gagacaccac gaactctgtc tgatctagt 180  
aagtctgagt tgattgtatc gcaatcagtt aaaactttca acaatggatc tcttggttcc 240  
ggcatcgatg aagaacgcag cgaaatgcga taactagtgt gaattgcaga attccgtgaa 300  
tcatcgagtc tttgaacgca cattgcgccc cctggtattc cggggggcat gcctgtccga 360  
gcgtcattgc tgcccatcaa gcacggcttg tgtgttgggt cgtcgtcccc tctccggggg 420  
ggacgggccc caaaggcagc ggcggcaccg cgtccgatcc tcgagcgtat ggggctttgt 480  
cacccgctct gtaggcccgg ccggcgcttg ccgaacgcaa atcaatcttt ttccagggtg 540  
acctcgatc aggtagggat acccgctgaa cttaagcata tcaataagcg gagga 595

<210> 35  
 <211> 597  
 <212> DNA  
 <213> *Aspergillus fumigatus*

<400> 35  
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 caccctgtgc taccgtacct tgttgcttcg gcgggcccgc cgtttcgacg gccgccgggg 120  
 aggccttgcg cccccggggc cgcgcccgcg gaagacccca acatgaacgc tgttctgaaa 180  
 gtatgcagtc tgagttgatt atcgtaatca gttaaaactt tcaacaacgg atctcttggt 240  
 tccggcatcg atgaagaacg cagcgaaatg cgataactaa tgtgaattgc agaattcagt 300  
 gaatcatcga gtctttgaac gcacattgcg ccccttggtt ttccgggggg catgcctgtc 360  
 cgagcgtcat tgctgccttc aagcacggct tgtgtgttgg gcccccgctc cctctctccg 420  
 ggggacgggc ccgaaaggca gcggcggcac cgcgctccgt cctcgagcgt atggggcttt 480  
 gtcacctgct ctgtaggccc ggccggcgcc agccgacacc caactttatt tttctaaggt 540  
 tgacctcgga tcaggtaggg ataccgcgtg aacttaagca tatcaataag cggagga 597

<210> 36  
 <211> 565  
 <212> DNA  
 <213> *Aspergillus nidulans*

<400> 36  
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 ctcccacccg tgactactaa caactgttgc tccggcgggg gccccccagg gccgagccgc 120  
 cggggaccac tgaacttcat gcctgagagt gatgcagctc gagcctgaat acaaactcagt 180  
 caaaactttc aacaatggat ctcttggttc cggcatcgat gaagaacgca gcgaactgcg 240  
 ataagtaatg tgaattgcag aattcagtga atcatcgagt ctttgaacgc acattgcgcc 300  
 ccctggcatt ccggggggca tgctgtccg agcgtcattg ctgccctcaa gcccggttgc 360  
 tgtgttgggt cgtcgtcccc cccggggggac gggcccgaaa ggcagcgggc gcaccgtgtc 420  
 cggtcctcga gcgtatgggg ctttgtcacc cgctcgatta gggccggccg gccgcccagcc 480  
 ggcgtctcca accttatttt tctcaggttg acctcggatc aggtagggat acccgctgaa 540  
 cttaagcata tcaataagcg gagga 565

<210> 37  
 <211> 599  
 <212> DNA  
 <213> *Aspergillus niger*

<400> 37  
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 catccgtgtc tattgtaccc tgttgcttcg gcgggcccgc cgcttgctcg ccgccggggg 120  
 ggcgcctctg cccccggggc ccgtgcccgc cggagacccc aacacgaaca ctgtctgaaa 180  
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 tgaatcatcg agtctttgaa cgcacattgc gccccctggt attccggggg gcatgcctgt 360  
 ccgagcgtca ttgctgccct caagcccggc ttgtgtgttg ggtcgccgtc cccctctccg 420  
 gggggacggg cccgaaaggc agcggcggcg ccgctccga tcctcgagcg tatggggctt 480  
 tgtcacatgc tctgtaggat tggccggcgc ctgccgacgt tttccaacca ttctttccag 540  
 gttgacctcg gatcaggtag ggataccgcg tgaacttaag catatcaata agcggagga 599

<210> 38  
 <211> 608  
 <212> DNA  
 <213> *Aspergillus terreus*

<400> 38  
 tccgtaggtg aacctgcgga aggatcatta ccgagtgcgg gtctttatgg cccaacctcc 60  
 caccctgtac tattgtacct tgttgcttcg gcgggcccgc cagcgttgct ggccgccggg 120  
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B1

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